

"The objective was to get a nationwide demonstration of concern for the environment so large that it would shake the political establishment out of its lethargy ... it worked ... The people cared ... "

- Senator Gaylord Nelson, Founder of Earth Day

# TEACHER RESOURCES

Toads and Frogs of Missouri Poster

Photographs speak louder than words. Let students see 20 species of Missouri toads and frogs. Order from your education materials request form.

Toads and Frogs in Missouri CD with Poster Listen to the sounds of 20 Missouri toad and frog calls. Contact the NATURE SHOP at 877-521-8632 to order your copy.

#### **ADDITIONAL MUSTS**

Conservation Consonants Poster features B, C, D, H, L, M, P, R, T and W.

More Conservation Consonants Poster features F, G, J, K, N, Q, S, V, X, Y and Z.

Missouri Department of Conservation P.O. Box 180

**Address Service Requested** 

Jefferson City, MO 65102-0180

#### **LOOKING**

# ÅHEÅD

Summer issues will feature the following topics:

WOOLYWORM (K) will focus on food chains, energy cycles and predators.

TADPOLE (1) will cover insects and prairies.

CRAWDAD (2) will be on outdoor ethics, fishing and streams.

Don't miss the 2008

**SCHEDULE** on the

**WORKSHOP** 

Department's website at the following address:

www.missouriconservation.org/ teacher/workshops

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# Conservation



opring is here! This issue of

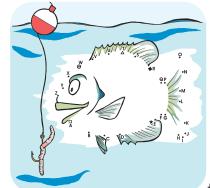
Conservation Teacher focuses on spring and plants and animals. Use our wonderful weather to discuss fishing and wildlife in water, toads and frogs, decaying logs and earthworms.

Earth Day is April 22!

# Woolyword pursuant

# What's for DINNER?

Discuss fishing. What reasons do people have for fishing? Perhaps fun, food or relaxation. Some people fish for a living.



Have students talk about their own fishing experiences. Do they keep fish or release them?

If you like to eat fish, keeping the fish that are big enough to cook can provide

a tasty meal. If you don't eat fish or give them to someone who does, then release the fish and pass along the fun of catching them.

#### **APPLICATION**

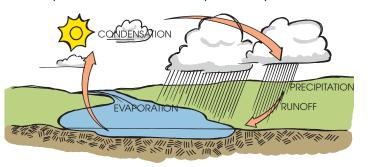
Bonus activities for school or home Encourage students to go fishing with a grown-up.

Have students watch for signs of spring renewing itself (trees budding, flowers blooming, birds singing, etc.).

## WATER WAYS

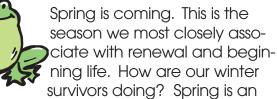
Use a different color to trace each water path as it flows into a bigger stream.

Water from rain, snow and home use runs downhill. This is called run-off. This water joins other run-off and flows into bigger systems. Water that is continually flowing is considered a stream. All the land around joining streams is called a watershed. The water cycle continually renews itself from year to year.



Discuss the vocabulary words above. Divide students into groups. Have the groups create a mural to show what happened to the water they brushed their teeth with that morning.

### HARRY SPRING



active time at a pond. Turtles and frogs have rested at the bottom of the pond and now return to the surface. Dragonflies become active and eat other insects.

Encourage students to discuss and draw something that they like to do in the spring.



#### FROAD AND TOG



How are toads and frogs alike? How are they different? ALIKE

little eyes thin, wet skin no warts big jumps

**FROG** 

Did you know you can determine

whether a bullfrog is a male or female by looking at the size of its eardrum (tympanum)? If the eardrum is larger than the

"true" frogs.



#### FROGWORD PUZZLE

applies to several other species of

Help students complete the puzzle, emphasizing vocabulary words as they continue.

Define:				G	I	上	$^{2}L$	S		
Amphibians-adapted				d -				Г		
to life on land and in <b>Gill</b> -a feathery organ				ater	$^{3}L$	А	Ν	D		5
				that			G	Г		
lets animals, like fish and amphibians,			<sup>4</sup> T	0	А	D	S			
get oxygen from								•		
water			D					<sup>5</sup> W		
•	Å	М	Р	Н	I	В	I	A	N	S
val (baby) amphibian			0					Т		
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Pond activity increases in sprinatime. Animals come to the pond for food and drink. Areas around ponds are good places to find animal tracks.

Have students add the tracks to their picture.

## **EGGS IN JELLY**

Create your own version of frog eggs by making this slimy mix.

#### Materials:

egg whites peppercorns bowl

Place the peppercorns in the bowl, then pour the egg whites over. Have students touch the peppercorns. The sensation is similar to frog eggs in their jelly-like cases.

#### **APPLICATION**

Bonus activities for school or home Students can create their toad abode and watch for toads in their backyard. Students can look for tracks in their own yards. Can they tell what has been there?



Jump, Frog, Jump, by Robert Kalan My River, by Shari Halpern A River Ran Wild, by Lynne Cherry Frog and Toad Are Friends, by Arnold Lobel Days with Frog and Toad, by Arnold Lobel





Unscramble the sentences. Have students create their own scrambled sentences about the picture.

The aroundhoa, also known as a woodchuck (Marmota monax), is a member of the squirrel family. Found from the eastern and central United States northward across Canada and into Alaska, groundhoas are animals of open fields and woodland edges. Groundhoas eat green plants, such as dandelion, clover and grasses. They mainly live on the around but are good swimmers and climbers. They feed heavily in summer, storing fat to get them through their winter hibernation. They are also excellent diagers, constructing a burrow with a main entrance and an escape tunnel.

Here is a groundhog web site you may wish to access to celebrate Groundhoa's Day:

#### www.groundhogs.com

(Go to the links and find games to play.)

# **ARBOR** DAY



To find out more about Arbor Day, contact: The National Arbor Day Foundation 100 Arbor Avenue Nebraska City, NE 68410 Toll Free: 1-888-448-7337 www.arborday.org

The first Arbor Day was held on April 10, 1872. More than 1 million trees were planted that day. Missouri Arbor Day began in 1886. It is the first Friday in April.

LOG LONCH

Discuss the breakdown of a rotting log. Do the disappearing log

> puzzle. Discuss why the log is completed in camouflage colors.

> > Discuss decomposition. Decomposers feed on dead organic material. This

helps put nutrients back into the soil. Decomposers play an important part in the food chain; plants can absorb nutrients from the soil and pass

them along.

#### **APPLICATION**

Bonus activities for school or home Have students look for rotting debris around their home. What types of wildlife

do they see eating it?

Students, with the help of parents or quardians, can plant an Arbor Day tree.



To develop a math lesson, weigh and measure the worms before adding them to the jar.